

## Supported catalyst comprising delta- or theta-modified aluminium oxide supports

## Abstract

- 5      Process for producing a supported catalyst which comprises at least 75% by weight of Al<sub>2</sub>O<sub>3</sub>, whose proportion of Al<sub>2</sub>O<sub>3</sub> in the delta or theta modification is, based on the proportion of Al<sub>2</sub>O<sub>3</sub>, at least 1% and which comprises a rhenium compound and, if appropriate, a promoter as active component (A), which comprises
- 10     a)     converting a customary support (S) which comprises at least 75% by weight of Al<sub>2</sub>O<sub>3</sub> and to which a promoter may, if appropriate, have been applied is converted into a modified support (S) whose proportion of Al<sub>2</sub>O<sub>3</sub> in the delta or theta modification is, based on the proportion of Al<sub>2</sub>O<sub>3</sub>, at least 1% by calcining the customary support (S) at a temperature of from 750 to 1100°C,
- 15     b)     producing a supported catalyst precursor from the modified support (S) by applying the active component (A) comprising the rhenium compound to the modified support (S) and
- 20     c)     calcining the supported catalyst precursor at a temperature of from 500 to 750°C.